PA Heritage Conference 2016
ReGIS's Tips, Tricks and New Ideas for Novices, Experts and Everyone In-between

Noël Strattan, CRGIS Coordinator
Elizabeth Shultz, CRGIS Specialist / Survey Coordinator

PA SHPO
Who Are You?

• Registered Archaeological User
• Registered Planner User
• Regular Public User
  • Know what it is, but rarely use it
  • Never heard of it or never used it
Who Are We?

• Pennsylvania State Historic Preservation Office (PA SHPO) (Formerly Bureau for Historic Preservation)
  – Cultural Resources Geographic Information System (CRGIS)
    • Noël Strattan – CRGIS Coordinator
    • Elizabeth Shultz – CRGIS Specialist / Survey Coordinator
Developing Strategy for Survey

- 1977-1987
- 17,930 miles covered out of roughly 45,000
- 78,930 above-ground resources identified
PENNSYLVANIA: HISTORIC SITE SURVEY ACTIVITY

Complete Survey
Partial Survey
Evolving Methodology & Priorities

• Continued exploration and testing of ‘twenty-first century’ survey tools, to be publicly introduced in the next year

• Geographic vs. Thematic vs. Project-Driven
  • Regional distribution
Strategic Partnerships

- Local governments
- Invested stakeholders
- Educational institutions
- Diverse state agencies
- Community and real estate developers
Information Literacy

For all categories of users:

• Recognize that information is needed

• Have the ability to:
  • locate existing information
  • evaluate existing information
  • effectively use existing information

• Have the tools to successfully and efficiently plan for the collection of further information
Timeline & Next Steps

• Summer 2016 – Launch regional pilot program
• Fall 2016 – Educational programming
• 2017 – Introduction of varied data collection applications

Questions?
Elizabeth Shultz
CRGIS Specialist and Survey Coordinator
elishultz@pa.gov
717-346-9568
What is CRGIS?

A Web-accessible, map-based inventory of Pennsylvania’s recorded historic and archaeological sites and surveys.
A cooperative venture of the Pennsylvania Historical & Museum Commission and the Pennsylvania Department of Transportation

On the web since 2004
Current Data Summary

- Historic Resource Files (HRF) as of 4/14/2016
  - 132,648 Keynumbers
  - 145,572 Inventory IDs

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<td>Aggregate Railroad Files</td>
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Where do the data come from?

Historic Resources

• Local survey (old and new)
• CRM Survey
• CRM requests (individual properties/project)
• Thematic survey
• NR nominations from owners
• Local historic districts (municipal planning areas)
Current Data Summary

Pennsylvania Archaeological Site Survey
(PASS) as of 1/1/2016
24,138 Sites
18 Fort Locations
Where do the data come from?

PASS

- CRM Survey
- Avocational Archaeologists
- Academic Institutions
- Museum Research
- Information collected by the PHMC over the last 60+ years
Current Data Summary

Archaeological and Historic Survey Reports 11,962

- 11,205 reports from CRM projects
- 580 reports from historic property regional surveys
- 81 multiple property nominations
- 96 other manuscripts (Including archaeological regional surveys)
Data Quality

• Accuracy dependent upon originals
  – mapping level and source
  – cultural data
  – date recorded
• Survey methodology is a choice
  – Reason for recording is important
Absence of data does not necessarily mean that historic properties are not present.
Where do I find CRGIS?
Welcome to Pennsylvania's Cultural Resources Geographic Information System

CRGIS is a map-based inventory of the historic and archaeological sites and surveys stored in the files of the Bureau for Historic Preservation (BHP). The Pennsylvania Historical and Museum Commission (PHMC) has been collecting information concerning archaeological sites and historic resources for the greater part of a century. Currently there are 22,693 archaeological sites and 130,620 historic properties in these files. Access to these paper records is free and open to the public by appointment at the BHP office in Harrisburg. CRGIS is a means of accessing some of these data without a trip to Harrisburg.

Web access to all of the historic resource data is open to the public. Access to archaeological site locations and detailed site information is restricted and password protected and will be granted to qualified individuals on a need to know basis. Two levels of restricted access are available: one for planning professionals and one for archaeological professionals. Visit the Register section of our Web site to register for a password. The "Ask ReGIS" function will allow you to query the underlying databases in a variety of ways to look for sites that are of interest to you.

CRGIS is an ongoing initiative, and tables and associated data will undergo staged enhancements and constant updating. Users are encouraged to notify CRGIS about additions or corrections that may be needed by using the "Feedback" function of the "Ask ReGIS" page. Please include references or other documentation for changes or additions. New sites will be added when received. Please refer to our Recording Resources section for more information on submitting resources for inclusion in the CRGIS.

CRGIS is a partnership between the Pennsylvania Historical & Museum Commission (PHMC) and the Pennsylvania Department of Transportation, with financial support from the Federal Highway Administration, the Baltimore District of the United States Army Corps of Engineers, and the Pennsylvania Department of Environmental Protection.

http://crgis.state.pa.us
Security Challenge

- Sensitive data
  - Archaeological site locations
  - Landowner information
  - Sacred places

Who should have access to what?
Security Solution

- Site locations password protected
- Registration required for password
- Professional qualifications determine level of access

3 Levels of Viewing Access
• Public – open to everyone - No Password Needed

  – Can search and view data for all resources through Ask ReGIS
  – Can map historic resources and archaeological surveys
  – Spatial search gives only summary archaeological information
• Planner – open to planning professionals by application for individual password

  – Can search and view data for all resources through Ask ReGIS
  – Can map historic sites and archaeological surveys and probability model
  – Spatial search gives specific site information inside search area, but does not map archaeological sites
• Archaeologist – open to professionals by application for individual password

  – Can search and view data for all resources through Ask ReGIS
  – **Can map archaeological sites**, historic sites, archaeological surveys, and probability model
  – Spatial search gives specific site information inside search area
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Registration

Registration is not required to view historic site data and locations, archaeological survey data and locations, and archaeological site tabular data.

Full access to archaeological data is available for registered cultural resource professionals who meet the Secretary of the Interior’s Professional Qualification Standards with a specialty in prehistoric, historic and/or under water archaeology or geomorphology.

Planning access is available for planning professionals whose job descriptions involve the regular development or evaluation of proposals for ground disturbing activities which may affect archaeological resources. Access will be granted to individuals, not agencies or companies, but requires authorization by a responsible employer.

If you are on BHP’s archaeological consultant list:

1. Read the CRGIS Data Quality Statement.
2. Fill out the registration form on this page.
   - Choose "Archaeological" as the Access Type.
   - Include "ON CONSULTANT LIST" in the Reason For Access box as part of your rationale.
   You will be notified by email when 10 day temporary access has been established.
3. Print a copy of the appropriate Terms and Conditions. Read and sign it and send it by mail. Permanent access will be established when this agreement is received and you will be notified by email.

If you are a planner or an archaeologist and are not currently listed on BHP’s consultant list:

1. Read the CRGIS Data Quality Statement.
2. Fill out the registration form on this page choosing the appropriate Access Type.
3. Print a copy of the appropriate Terms and Conditions for the access you are requesting. Read and sign it and send it by mail along with a copy of your vita showing that you meet the Secretary of the Interior’s Professional Qualification Standards. You will be notified by email when your access has been established.
4. Include documentation indicating why you qualify for access:

   **Planners** Include a job description indicating that your position includes development or evaluation of plans that include ground disturbing activity and a letter from your agency or company justifying their need for information, indicating their willingness to
• Read the CRGIS Data Quality Statement.
• Fill out the registration form.
• Choose Access Type.
• Include a brief description of the work you perform in the Reason For Access box.
• Print and sign copy of the Terms and Conditions
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Web access to all of the historic resource data is open to the public. Access to archaeological site locations and detailed site information is restricted and password protected and will be granted to qualified individuals on a need to know basis. Two levels of restricted access are available: one for planning professionals and one for archaeological professionals. Visit the Register section of our Web site to register for a password. The *Ask ReGIS* function will allow you to query the underlying databases in a variety of ways to look for sites that are of interest to you.

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CGIS is an ongoing initiative, and data and associated data will undergo staged enhancements and constant updating. Users are encouraged to notify CGIS about additions or corrections that may be needed by using the "Feedback" function of the "Ask ReGIS" page. Please include references or other documentation for changes or additions that will be added when received. Please refer to our Pennsylvania Resources section for more information on submitting resources for inclusion in the CGIS.

Copyright 2014 © CGIS
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Basic Functionality

Starting with a Map
Try it!
Reading the Map
Public & Planners see only purple surveyed areas.
Historic resources are visible to everyone & color coded by National Register Status or Special Resource Type
### Linear Historic Resource Information

**Identification**
- **Key #:** 155446
- **Property Name:** Montour Railroad (aggregate file)
- **Resource Type:** District

**Location**
- **Washington County:** Cecil Township
- **Allegheny County:** Robinson Township
- **Washington County:** Peters Township
- **Allegheny County:** Findlay Township
- **Washington County:** Chartiers Township
- **Allegheny County:** South Park Township
- **Allegheny County:** Baldwin Borough
- **Allegheny County:** North Fayette Township
- **Washington County:** Robinson Township
- **Allegheny County:** Moon Township
- **Allegheny County:** Bethel Park Borough
- **Allegheny County:** West Mifflin Borough
- **Washington County:** Mount Pleasant Township
- **Allegheny County:** Coraopolis Borough
- **USGS Quadrangle:** Ambridge - Bridgeville - Canonsburg - Clinton - Glassport - Midway - Oakdale

**Status**
- **NR Status:** Aggregate File (see comments)
- **Contributes:** Undetermined
- **Condition:** Unreported

**Historic Information**
- **No Data Present**

**Physical Description**
- **No Data Present**

**Historic Function**

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<tr>
<th>Function</th>
<th>Sub Function</th>
<th>Particular Use</th>
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<tr>
<td>Transportation</td>
<td>Rail-Related</td>
<td>Railroad</td>
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</tbody>
</table>

**Current Function**
- **No Data Present**

**Inventory Items**
- **No Data Present**

**Ancillary Features**
- **No Data Present**

### Associated Resources

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<th>Resource</th>
<th>Name</th>
<th>Association</th>
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<tr>
<td>115042</td>
<td>Historic name unreported</td>
<td>Historically Associated</td>
</tr>
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</table>

### Administrative Actions
- **03/30/2009:** Aggregate File Created

### National Register Information
- **No Data Present**

### Links
- **Attachment Name:** H155446_01R.pdf

### Comments
A BRIEF railroad lineage has been created from various sources. It is NOT definitive, but can help begin to understand the history of the line.

Key #s of any PREVIOUSLY SURVEYED components will appear in the "Associated Resources" section above.

The railroad lineage file can be found in the "Links" section above.

This AGGREGATE FILE does NOT represent a historic resource survey, and will NOT have a determination of eligibility.

This AGGREGATE FILE illustrates the historic path of the railroad line based on research, but is in NO way definitive.

This AGGREGATE FILE is a means of collecting and displaying previously surveyed components("associated resources") of a particular railroad line.
NEW
Pre-Contact Probability Model
Archaeological Predictive (Sensitivity) Model

Developed by URS/AECOM under contract to PennDOT

See 6/1/2016 SHPO Blog for details
Caveats

• Only Pre-Contact sites considered
• Based on existing site files
• Different models in different places (depending upon data available)
• Not field verified (YET!)
Regional – subarea level

- Defined by combination of Physiographic Zones, Watersheds, and Topography
  - 10 Regions, based on Physiographic Zones
  - 66 Sections, based on watersheds within regions
  - 132 Subareas – two per Section
    - Riverine
    - Upland
Variables calculated on

• Digital Elevation Models
• National Wetland Inventory (NWI) (streams, wetlands, and water bodies)
• United States Department of Agriculture (USDA) soils data
• Historical Data
91 Secondary Variables developed

• Represent environment
• Many based on some form of distance
  —Euclidian, cost, vertical...
• Analyzed by subarea
• Used most discriminate 10-15
• Tested for redundancy
Entire State gridded & ranked

• 10 m grids
• Rated low, moderate, or high
• Aggregated into 30 m grid
  – Highest value prevails
• Thematic mapping = color coded
Threshold Assumptions

• 85% of the sites will be found in 33% of the landscape
• No more than 33% of the true-negative observations will be classified as sensitive
• Shows 3 levels of likelihood that sites are present
  – High
  – Moderate
  – Low (no color)
• All should be considered
Check for Disturbance!
What is in the area around my project?

Spatial Searches
DRAW YOUR AREA
### Spatial Summary

#### Historic Sites (Non-Linear) (12 results for 11 resources)

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<th>Key #</th>
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<th>Municipality</th>
<th>County</th>
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<th>Tax Parcel</th>
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<th>Material</th>
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#### Local Historic District Certified under Historic (0 results for 0 resources)

- **Unmapped Historic Sites (19 results for 19 resources)**

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<td></td>
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</tr>
</tbody>
</table>

#### Archaeological Sites by Watershed (1 result for 1 report)

#### Archaeological Sites (1 result for 1 resource)

#### Archaeological Survey Reports (0 results for 0 reports)

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**Please close this report window before drawing another spatial search.**
Please close this report window before drawing another spatial search.
Try it!

CRGIS?
Are there other resources in my area?

Searching the Database
Search Type: Archaeological Site

Where:
- Statewide
- Counties/Municipalities
  - Counties: Adams, Allegheny, Armstrong, Beaver
  - Municipalities: Aleppo Township, Aspinwall Borough, Avalon Borough

When:
- Category:
- Period:
  - Selected Periods

Additional Criteria (Basic):
- Site Type
- Includes Village

Search Description:
- Search Type: Archaeological Site
- Where: Allegheny County
- When:
- Additional Criteria: Site Type Includes Village

Search | Reset
Try it!
Advanced Search
What you can do with Search Results
### Search Results

<table>
<thead>
<tr>
<th>Site Number</th>
<th>ER Number</th>
<th>Site Name</th>
<th>Source of Data</th>
<th>Site Type</th>
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</thead>
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<td>Informant Interview Amateur Survey</td>
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<td>1977-R001-003-A</td>
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<td>1981-2015-042-B</td>
<td>Cristoff Farm</td>
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<td>36AL0014</td>
<td>1989-R015-042</td>
<td>Hayden Farm</td>
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<td>36AL0026</td>
<td>1989-R015-042</td>
<td>Bunola</td>
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<td>Wylie Site (Fisher #62)</td>
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<td>36AL0062</td>
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<td>Herron Farms</td>
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<td>36AL0016</td>
<td>1989-R015-042</td>
<td>Fall Timber Farm</td>
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<td>36AL0017</td>
<td>1981-1301-003-A</td>
<td>MoJunkin</td>
<td>Informant Interview Amateur Survey</td>
<td>Village</td>
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</table>

**Search Criteria:**
- **Search Type:** Archaeological Site
- **Where:** Allegheny County
- **When:**
- **Additional Criteria:** Site Type Includes Village
Details: Click on a Resource

- On map - Click on the shape
- In AskReGIS – Click on the
- In Spatial Search – Click on the row
Click

- On a list row
- OR
- On a map feature
Historic Resource Information

**Identification**
- Key #: 083509
- Property Name: Tulpehocken Creek Historic District
- Resource Type: District
- Approximate # of Resources: 210

**Location**
- Berks County: Marion Township
- UTM: Zone 18 E 393140 N 4470740
- Zone 18 E 393140 N 4470860
- Zone 18 E 3936120 N 4468760
- Zone 18 E 3936180 N 4469880
- Zone 18 E 3936900 N 4470200
- USGS Quadrangle: Bernville - Womelsdorf - Strausstown

**Status**
- NR Status: Listed
- Contributes: Undetermined
- Owner: Private
- Condition: Unreported

**Historic Information**
- Year Built: circa 1723, circa 1930

**Physical Description**
- Walls: Stone, Wood
- Other: Brick

**Inventory Items**
- Report Name: Boarding House, Charming Forge
- View: Charming Forge
- View: Charming Forge-Iron Master’s House
- View: Charming Forge; Tulpehocken Eisenhammer
- View: Stump Farm
- View: Tulpehocken Eisenhammer, Charming Forge

**Ancillary Features**
- No Data Present

**Administrative Actions**
- 08/06/2008: SHPO Site Visit
- 03/28/1985: NR Listed
- 02/12/1985: Sent to NPS
- 01/08/1985: Board Approved
- 08/07/1984: NR Return
- 06/29/1984: NR Nom. 1st Submission

**National Register Information**
- Criteria: A - Event, C - Design/Construction
- Area of Significance: Agriculture, Architecture, Commerce, Exploration/Settlement, Industry
- Contributing: 4 Structures, 1 Sites, 152 Buildings
- Non-Contributing: 2 Sites, 58 Buildings
- Acreage: 1700

**Links**
- Attachment: H833509_S3B.jpg
- Photograph: H833509_S2B.jpg
- Inventory: H833509_S21.pdf
- NR Form: H833509_S11.pdf
- Photograph: H833509_S11.jpg

**Chemcals**
- No Data Present

**Outbuildings**
- No Data Present

**Observations**
- No Data Present
Archaeological Site

### Archaeological Site Information

<table>
<thead>
<tr>
<th>Identification</th>
<th>Features</th>
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<tbody>
<tr>
<td>Site Number: 36JU011</td>
<td>Lithic Materials:</td>
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<tr>
<td>Site Name: Henry Site</td>
<td>Jasper: 11% - 20%</td>
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<tr>
<td>ER #: 2001-6144-057</td>
<td>Chert/Flint: 81% - 90%</td>
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<tr>
<td>Location:</td>
<td>Features:</td>
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<tr>
<td>Junia: Turbett Township</td>
<td>Present</td>
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<tr>
<td>Lower Junia River</td>
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<tr>
<td>Watershed B</td>
<td>No Data Present</td>
</tr>
<tr>
<td>Watershed I</td>
<td></td>
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<tr>
<td>Juniata River</td>
<td>ROM, MoA, MoC, Eic</td>
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<tr>
<td>Tuscarrora</td>
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<tr>
<td>UTM: Zone 18 E 395041 N 4487665</td>
<td>Other Data Present</td>
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<tr>
<td>Quadrangle: Mifflintown</td>
<td>Color: Present</td>
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<tr>
<td>Soil Mapping Unit(s): MeB, MoA, MoC</td>
<td>Size: Present</td>
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<tr>
<td>Site Elevation: 430</td>
<td>Type: Present</td>
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<tr>
<td>Slope Aspect: Northeast</td>
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<tr>
<td>Slope Basis: Soil Survey or Map</td>
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<tr>
<td>Average Slope: 2</td>
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<tr>
<td>Physiographic Zones: Appalachian Mountain Section(29)</td>
<td>Site Elevation: 430</td>
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<tr>
<td>Topographic Setting: Terrace</td>
<td>Slope Aspect: Northeast</td>
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<tr>
<td>Predominant Bedrock Formation(s): Diabase/Diabase, Keyser And Tonoloway Formations undiv</td>
<td>Slope Basis: Soil Survey or Map</td>
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<td>Relationship to Confluence: Site Upstream from Confluence and Between the 2 Water Sources</td>
<td>Average Slope: 2</td>
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<td>Distance</td>
<td>Present</td>
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<tr>
<td>Elevation</td>
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<td>Direction</td>
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<td>Order</td>
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<tr>
<td>Type</td>
<td>Present</td>
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<tr>
<td>Nearest Water</td>
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<tr>
<td>Distance</td>
<td>440 ft</td>
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<tr>
<td>Elevation</td>
<td>On-site</td>
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<td>Direction</td>
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<td>Order</td>
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<td>Order</td>
<td>Stream</td>
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<td>Nearest Confluence</td>
<td>80 m</td>
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<td>Order</td>
<td>Confluence</td>
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<tr>
<td>NR Status: SHPO: Eligible</td>
<td>Present</td>
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<tr>
<td>NR Status Date: 3/2/2004</td>
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<tr>
<td>Primary Disturbance: Private, Commercial, Industrial Development</td>
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### Administrative Actions

<table>
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<tr>
<th>Date</th>
<th>Action</th>
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<tbody>
<tr>
<td>09/25/2013</td>
<td>Site Updated</td>
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<tr>
<td>03/02/2004</td>
<td>SHPO: Eligible</td>
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<td>11/01/2003</td>
<td>Other Agency: Eligible</td>
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<td>11/01/2003</td>
<td>Site Recorded</td>
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### Site Characteristics

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<tr>
<th>Recording Reason</th>
<th>Site or Federal Compliance Survey</th>
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<tr>
<td>Discovery Method</td>
<td>Shovel Testing</td>
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<td>Site Area</td>
<td>239</td>
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<td>Area Basis</td>
<td>Computed on Ground</td>
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<tr>
<td>Organic Preservation</td>
<td>Unknown</td>
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<tr>
<td>Vegetation Cover</td>
<td>Lawn</td>
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<td>Stratified</td>
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### Chronology

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<th>Placement</th>
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<td>Archaic - Late</td>
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<td>PASS Form</td>
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<tr>
<td>Woodland</td>
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<td>PASS Form</td>
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### Radiocarbon Date

| Date | 3430 ± 130 |
## Survey Information

**Report Number:** 1993-4116-005-D  
**Title:** Ph I/II Archaeology, Armstrong County SR 0286, S 190, Parker Curve, AR Co., Pennsylvania  
**Author:** J. Eddins  
**Organization:** Shelly and Loy, Inc.  
**Date:** 11/1/1995  
**Agency:** FHWA  
**Agency Type:** Federal Agency  
**No. of Pages:** 42

## Location

**County:** Armstrong  
**Municipality:** Hovey Township

## Report Types

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<th>Area Surveyed (hectares)</th>
<th>No. of Properties/Sites</th>
<th>Method(s)</th>
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<tr>
<td>Phase I</td>
<td>.02</td>
<td>1</td>
<td>Systematic Shovel Testing</td>
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<tr>
<td>Phase I</td>
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<td>Test Units</td>
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<td>Phase II</td>
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## Repository

No Data Present

## Hydrology

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<tr>
<th>Sub-Basin</th>
<th>Watershed</th>
<th>Major Stream</th>
<th>Minor Stream</th>
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<tr>
<td>(17) Central Allegheny River</td>
<td>Watershed C</td>
<td>Allegheny River</td>
<td>Other</td>
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## Resources Reported

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<td>36AR00584</td>
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## Physiographic Zone

**Physiographic Zone:** Pittsburgh Low Plateau Section (21)

## Attachments

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<tbody>
<tr>
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No Data Present
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